

Notice of Allowability

Application No.

10/817,214

Applicant(s)

HSU ET AL.

Examiner

Art Unit

Brian D. Nguyen

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/9/06.
2. ☒ The allowed claim(s) is/are 5, 14, 6-9, 11-13, 19, 21-23, 25, 26, 32-36, 38, and 40 (renumbered 1-22, respectively).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

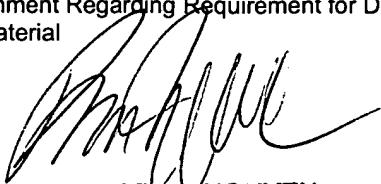
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 20061002.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


BRIAN NGUYEN
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Robert Mauri on 10/2/06.

3. The application has been amended as follows:

Claim 13. A method comprising:

initiating a transition ~~by a base station~~ from a Control Hold Mode of a reverse link packet data channel for communication between a base station and ~~the~~ a mobile station to an active state of the reverse link packet data channel by sending a transition mode request from the base station to the mobile station;

setting an extended message type identifier indicating that the mobile station is to exit the Control Hold Mode;

further initiating the ~~mode~~ transition by sending a medium access control identification code by the base station via a Forward Packet Data Control Channel to the mobile station;

turning on a Reverse Channel Quality Indication Channel and a Reverse Acknowledgement Channel by the mobile station;

monitoring the Forward Packet Data Control Channel; and

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transitioning the mobile station to the active state of the reverse link packet data channel, wherein the mobile station transmits on the reverse link packet data channel in the active state of the reverse link packet data channel.

Claim 19. A method comprising:

assigning medium access control identification codes (MAC_IDs) from a MAC_ID space to each of a first group of a plurality of mobile stations in an ascending order from the MAC_ID space, wherein the plurality of mobile stations communicate with an apparatus; and

assigning MAC_IDs to each of a second group of the plurality of mobile stations in a descending order from the MAC_ID space,

wherein the first group of mobile stations use at least a reverse link channel to communicate with the apparatus and the second group of mobile stations use a forward link channel to communicate with the apparatus.

Claim 20 (Canceled)

Claim 22. A method comprising:

assigning medium access control identification codes (MAC_IDs) from a MAC_ID space to each of a first group of a plurality of mobile stations in an ascending order from the MAC_ID space, wherein the plurality of mobile stations communicate with an apparatus; and

assigning MAC_IDs to each of a second group of the plurality of mobile stations in a descending order from the MAC_ID space, wherein the MAC_IDs for the first and second groups of mobile stations are reserved in first and second blocks, respectively, and wherein mobile stations having MAC_IDs in the first block monitor a first bitmap field in a channel from

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the apparatus to the plurality of mobile stations and mobile stations having MAC_IDs in the second block monitor a second bitmap ~~filed~~ field in the channel.

Claim 23. A ~~signal-bearing~~computer-readable medium tangibly embodying a program of ~~machine-readable~~computer-executable instructions executable by a network device to perform operations comprising:

assigning medium access control identification codes (MAC_IDs) from a MAC_ID space to each of a first group of a plurality of mobile stations in an ascending order from the MAC_ID space, wherein the plurality of mobile stations communicate with an apparatus; and

assigning MAC_IDs to each of a second group of the plurality of mobile stations in a descending order from the MAC_ID space,

wherein the first group of mobile stations use at least a reverse link channel to communicate with the apparatus and the second group of mobile stations use a forward link channel to communicate with the apparatus.

Claim 24 (Canceled)

Claim 25. A ~~signal-bearing~~computer-readable medium as in claim 23, wherein the first group of mobile stations use a first acknowledgement channel, and the second group of mobile stations use a second acknowledgement channel.

Claim 26. A ~~signal-bearing~~computer-readable medium tangibly embodying a program of ~~machine-readable~~computer-executable instructions executable by a network device to perform operations comprising:

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assigning medium access control identification codes (MAC_IDs) from a MAC_ID space to each of a first group of a plurality of mobile stations in an ascending order from the MAC_ID space, wherein the plurality of mobile stations communicate with an apparatus; and

assigning MAC_IDs to each of a second group of the plurality of mobile stations in a descending order from the MAC_ID space, wherein the MAC_IDs for the first and second groups of mobile stations are reserved in first and second blocks, respectively, and wherein mobile stations having MAC_IDs in the first block monitor a first bitmap field in a channel from the apparatus to the plurality of mobile stations and mobile stations having MAC_IDs in the second block monitor a second bitmap ~~field~~ field in the channel.

Claim 32. A ~~signal-bearing~~ computer-readable medium tangibly embodying a program of ~~machine-readable~~ computer-executable instructions executable by a mobile station to perform operations comprising:

sending a transition mode request to a wireless network to initiate a transition by the mobile station from a Control Hold Mode of a reverse link packet data channel to an active state of the reverse link packet data channel;

turning on a rate request channel;

requesting a reverse link packet data channel transmission;

monitoring a rate grant channel;

in response to a reception of an individual grant from the wireless network, transitioning to the active state of the reverse link packet data channel in response to receipt of the grant;

initiating transmission on the reverse link packet data channel in autonomous mode; and,

monitoring a Forward Acknowledgement Channel.

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Claim 33. The ~~signal bearing~~computer-readable medium of claim 32, wherein the reverse link packet data channel is in operation without an assigned Forward Packet Data Channel.

Claim 34. The ~~signal bearing~~computer-readable medium of claim 33, wherein the operations further comprise:

gating a reverse pilot and a reverse rate request channel;

stopping transmission on the Forward Acknowledgement Channel;

stopping monitoring of the reverse link packet data channel; and

transitioning to the Control Hold Mode for the reverse link packet data channel.

Claim 35. The ~~signal bearing~~computer-readable medium of claim 32, wherein the reverse link packet data channel is in operation with an assigned Forward Packet Data Channel, and wherein the operations further comprise:

commencing continuous transmission on a reverse channel quality indication channel;

turning on a reverse acknowledgement channel; and,

commencing monitoring of the assigned Forward Packet Data Control Channel.

Claim 36. The ~~signal bearing~~computer-readable medium of claim 35, wherein the mobile station responds to a received signal to control transition by the mobile station from the active state of the reverse link packet data channel into the Control Hold Mode of the reverse link packet data channel.

Claim 38. An apparatus comprising:

means for assigning medium access control identification codes (MAC_IDs) from a MAC_ID space to each of a first group of a plurality of mobile stations in an ascending order

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from the MAC_ID space, wherein the plurality of mobile stations communicate with the apparatus; and

means for assigning MAC_IDs to each of a second group of the plurality of mobile stations in a descending order from the MAC_ID space,

wherein the first group of mobile stations use at least a reverse link channel to communicate with the apparatus and the second group of mobile stations use a forward link channel to communicate with the apparatus.

Claim 39 (canceled)

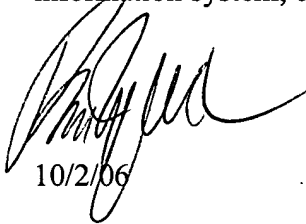
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D. Nguyen whose telephone number is (571) 272-3084. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



10/2/06

BRIAN NGUYEN
PRIMARY EXAMINER